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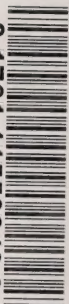
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Canada's Forests 1989

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Forestry
Canada

Forêts
Canada

Canada

Area Classification — 1986

	'000 000 ha
Forest land	
Inventoried	397.92
Noninventoried	55.40
Total forest land	453.32
Nonforest land	468.22
Total land	921.54
Water	75.52
Total	997.06

Ownership, Inventoried Forest Land - '000 000 ha

	Crown		Indus- trial	Non- industrial
	Provincial	Federal		
Newfoundland	21.79	0.10	0.50	0.08
Prince Edward Island	0.02	--	—	0.27
Nova Scotia	1.09	0.11	0.90	1.93
New Brunswick	3.09	0.16	0.59	1.00
Quebec	75.33	0.23	0.43	3.80
Ontario	39.72	0.32	0.89	5.63
Manitoba	23.45	0.39	—	1.17
Saskatchewan	22.78	0.50	—	0.24
Alberta	32.99	3.53	—	—
British Columbia	57.70	0.57	—	2.02
Yukon Territory	—	27.37	—	—
Northwest Territories	—	61.44	—	—
Total	277.92	94.72	3.31	16.14

	Munic- ipal	Unspec- ified Private	Unclas- sified	Total
Newfoundland	—	0.01	--	22.48
Prince Edward Island	—	—	—	0.30
Nova Scotia	—	—	—	4.04
New Brunswick	—	1.50	—	6.34
Quebec	—	2.70	—	82.49
Ontario	—	—	0.05	46.60
Manitoba	0.12	—	—	25.12
Saskatchewan	—	0.19	—	23.71
Alberta	0.01	1.12	0.10	37.75
British Columbia	—	0.02	—	60.31
Yukon Territory	—	—	—	27.37
Northwest Territories	—	—	—	61.44
Total	0.13	5.53	0.15	397.92

Source: Canada's Forest Inventory 1986. Forestry Canada

Note: The latest forest inventory data are not comparable with previous summaries as the more recent data incorporate changes in methodology, classification, and more complete coverage of inventory.

Wood Volume and Maturity Class^a — 1986

Province and Territory	Softwoods	Hardwoods	Total
		'000 000 m ³	
Newfoundland	487	38	525
Prince Edward Island	16	10	26
Nova Scotia	150	94	244
New Brunswick	362	209	571
Quebec	3 020	1 204	4 225
Ontario	2 205	1 325	3 529
Manitoba	444	236	680
Saskatchewan	536	370	905
Alberta	1 684	972	2 656
British Columbia	8 180	688	8 867
Yukon Territory	436	44	480
Northwest Territories	315	131	446
Total	17 834	5 320	23 154

Species Groups

Softwoods	'000 000 m ³	Hardwoods	'000 000 m ³
Spruce	7 146	Poplar-aspen	2 979
Pine	4 087	Birch	1 126
Fir	2 827	Maple	652
Hemlock	1 278	Unspecified	566
Cedar	885		
Douglas-fir	696		
Larch	105		
Unspecified	808		
Total	17 834	Total	5 320

Maturity Class	'000 000 m ³	'000 000 ha
Regeneration	140	19.79
Immature	5 625	77.76
Mature	13 619	83.33
Overmature	2 117	13.14
Uneven-aged	34	0.37
Unclassified	1 618	22.04
Total	23 154	216.41

^aGross merchantable volume on stocked, productive, nonreserved forest land

Source: Canada's Forest Inventory 1986. Forestry Canada

Forest Losses

Fires

Province and Territory	Number of fires		Area burned — '000 ha —	
	1988	1989	1988	1989
Newfoundland	116	192	2	68
Prince Edward Island	21	29	--	--
Nova Scotia	328	425	--	--
New Brunswick	438	391	2	--
Quebec	1 331	1 167	275	2 109 ^a
Ontario	3 260	2 430	391	402
Manitoba	982	1 143	470	3 010
Saskatchewan	1 064	1 020	81	546
Alberta	865	795	14	7
British Columbia	1 951	3 516	11	25
Yukon Territory	115	244	6	328
Northwest Territories	190	613	66	578
National Parks	73	131	--	1
Total	10 734	12 096	1 320	7 075

Insects – Area of Moderate to Severe Defoliation

	1987	1988 '000 ha	1989
Spruce budworm	8 420	6 297	7 614
New Brunswick	430	500	396
Quebec	740	434	700
Ontario	7 190	5 225	6 240
Other	60	140	277
Jack pine budworm			
Ontario	508	737	248
Mountain pine beetle ^b			
British Columbia	66	63	53
Hemlock looper	150	13	11
Forest tent caterpillar	3 812	8 350	10 601
Quebec	562	582	268
Ontario	1 650	3 965	7 915
Saskatchewan	250	932	791
Alberta	1 322	2 766	1 180
Other	28	105	447

Volume lost – '000 000 m³ Average 1982-86^P

Insects	64.7
Diseases	44.9

^aIncludes intensive and limited protection zones

^bArea of beetle - killed trees.

^PPreliminary data

Source: Forestry Canada.

Forest Management

Expenditures - \$ 000 000

1988

Activity

Silviculture	705
Forest protection	397
Resource access	285
Research	104
Other	526

Total **2 016**

Province and Territory	Federal	Provincial	Industrial	Total
Newfoundland	13	15	11	39
Prince Edward Island	2	2	—	4
Nova Scotia	13	26	10	48
New Brunswick	20	34	26	80
Quebec	53	278	53	384
Ontario	41	319	36	396
Manitoba	2	37	3	42
Saskatchewan	2	40	3	44
Alberta	9	73	30	111
British Columbia	46	452	332	831
Yukon Territory	—	6	—	6
Northwest Territories	—	6	—	6
Forestry Canada - NCR	25	—	—	25
Total	226	1 288	503	2 016

Silvicultural Accomplishments

Activity	1987	1988
Site preparation - 'ha	478 875	450 590
Area planted - 'ha	370 245	413 291
Seedlings planted - '000	656 468	731 332
Direct seeding - 'ha	37 318	37 726
Stand tending - 'ha	275 487	269 309

Province	Area planted ha		Seedlings planted ' 000	
	1987	1988	1987	1988
Newfoundland	5 057	4 240	12 643	10 600
Prince Edward Island	690	960	2 004	2 800
Nova Scotia	9 865	11 480	27 101	28 518
New Brunswick	18 916	19 123	45 714	45 620
Quebec	76 337	99 055	172 500	226 200
Ontario	73 253	81 025	163 354	171 579
Manitoba	5 694	6 870	13 396	15 669
Saskatchewan	3 110	7 020	5 697	10 532
Alberta	13 279	18 658	18 291	25 033
British Columbia	164 044	164 860	195 768	194 781
Total	370 245	413 291	656 468	731 332

Forest Industries

Employment ^a	Number of Employees		Salaries and Wages \$ 000 000	
	1986	1987	1986	1987
Logging	45 760	44 156	1 313	1 387
Wood industries				
Sawmills and planing mills	56 688	61 980	1 663	1 920
Shingle mills	2 550	2 043	60	53
Veneer and plywood mills	8 780	9 347	225	265
Sash, door, and other millwork	30 692	35 474	640	774
Other wood industries	12 256	12 811	268	292
Total wood industries	110 966	121 655	2 856	3 304
Paper and allied industries				
Pulp and paper mills	79 570	80 334	2 999	3 114
Other paper industries	37 493	39 012	1 004	1 071
Total paper and allied industries	117 063	119 346	4 003	4 185
Total forest industries	273 789	285 157	8 172	8 876

Value of Products	Value Added ^b \$ 000 000		Value of Shipments ^c \$ 000 000	
	1986	1987	1986	1987
Logging	2 297	2 736	5 776	6 668
Wood industries				
Sawmills and planing mills	3 216	3 888	7 387	8 714
Shingle mills	87	86	231	219
Veneer and plywood mills	439	496	916	1 078
Sash, door, and other millwork	1 227	1 467	2 589	3 132
Other wood industries	554	611	1 310	1 440
Total wood industries	5 523	6 548	12 433	14 583
Paper and allied industries				
Pulp and paper mills	6 974	8 852	15 072	17 637
Other paper industries	1 944	2 107	4 995	5 375
Total paper and allied industries	8 918	10 959	20 067	23 012
Total forest industries	16 738	20 243	38 276	44 263

^aBased on total activity (excludes working owners and partners).

^bBased on total activity and is the gross or sale value, less cost of material, fuel, purchased electricity, and process supplies consumed.

^cShipments of goods of own manufacture estimated by Forestry Canada.

Source: Statistics Canada.

Canadian Output of Selected Forest Products

	1987	1988 '000 m ³	1989
Lumber (production — all industries)			
Softwoods	61 045	59 623	57 980
Hardwoods	953	986	1 245
Total lumber	61 998	60 610	59 225
Plywood (shipments)	2 223	2 182	2 148
Wood-based panels (shipments)			
Particleboard	1 310	1 154	1 217
Waferboard	1 589	1 647	2 134
Hardboard	139	125	..
Wood pulp (production)		'000 t	
Groundwood	9 817	10 407	10 470
Dissolving and special alpha	241	266	273
Sulphite — bleached	454	441	416
— unbleached	1 296	1 298	1 212
Sulphate — bleached and semibleached	9 380	9 477	9 496
— unbleached	1 474	1 457	1 344
Semichemical defibrated and exploded ^a	353	335	338
Screenings	17	16	13
Total wood pulp	23 032	23 697	23 562
Basic paper and paperboard (production)			
Newsprint	9 669	9 969	9 678
Printing and writing paper	2 656	2 913	3 190
Kraft paper	567	568	525
Tissue and special paper	456	488	487
Paperboard	2 695	2 702	2 674
Total paper and paperboard	16 043	16 640	16 554

^aIncludes pulp other than wood pulp

Source: Statistics Canada, Canadian Pulp and Paper Association, and Forestry Canada.

Exports of Selected Forest Products

Wood, Wood Products, and Paper	Volume		Value	
	1988	1989 ^P	1988	1989 ^P
			\$ 000 000	
Primary products				
Logs and bolts - '000 m ³	3 031	1 793	300	184
Pulpwood - '000 m ³	985	800	30	21
Wood chips - '000 t	1 693	1 891	94	165
Other			77	73
Total primary products			501	443
Lumber - '000 m ³				
Softwoods	40 538	39 998	5 242	5 378
Hardwoods	601	414	182	130
Total lumber	41 139	40 412	5 424	5 508
Shingles and shakes - '000 m ²	31 030	32 968	211	215
Veneer - '000 m ³				
Softwoods	164	156	22	28
Hardwoods	134	133	123	116
Total veneer	298	289	145	144
Plywood - '000 m ³				
Softwoods	406	325	115	105
Hardwoods	73	76	34	44
Total plywood	479	401	149	148
Other wood products			740	774
Wood pulp - '000 t				
Mechanical	332	312	144	143
Chemical	8 116	7 936	6 331	6 787
Total wood pulp	8 448	8 248	6 475	6 930
Paper and paperboard - '000 t				
Newsprint	8 554	8 195	6 195	5 673
Other paper and paperboard	2 981	3 106	2 434	2 547
Total paper and paperboard	11 535	11 301	8 629	8 220
Other paper products			288	389
Total wood, wood products, and paper			22 562	22 769
Exports of wood, wood products, and paper				
To: United States			14 925	14 733
United Kingdom			1 211	1 225
Japan			2 304	2 538
Other countries			4 122	4 273

^PPreliminary data.

Source: Statistics Canada.

Canadian Commodity Trade – 1989^P

Wood and Paper Commodities	Domestic exports	Re- exports ^a	Imports	Balance of trade
		\$ 000 000		
Primary wood products	443	6	230	+ 218
Wood fabricated materials	6 788	84	1 056	+ 5 816
Wood pulp and paper products	15 539	17	2 112	+ 13 443
Total wood and paper products	22 769	107	3 398	+ 19 477
All other nonforest commodities	111 742	3 721	131 635	-16 172
Total commodity trade	134 511	3 828	135 033	+ 3 306

Domestic Exports of Wood and Paper Products by Province of Origin

	Primary Wood Products	Wood Fabricated Materials	Wood Pulp and Paper Products	Total ^b
		\$ 000 000		
Newfoundland	2.9	--	373.8	376.8
Prince Edward Island	0.1	0.8	0.7	1.7
Nova Scotia	16.3	32.3	465.5	514.1
New Brunswick	16.6	175.0	1 304.0	1 495.6
Quebec	27.0	857.7	4 206.0	5 090.7
Ontario	17.9	670.5	3 214.0	3 902.4
Manitoba	0.9	75.4	145.2	221.5
Saskatchewan	1.3	28.6	245.2	275.1
Alberta	4.1	282.4	444.3	730.7
British Columbia	355.4	4 665.3	5 139.8	10 160.5
Yukon Territory	—	*c	*c	*c
Northwest Territories	—	—	—	—
Total	442.6	6 788.0	15 538.5	22 769.1

^aIncludes only goods previously included in import statistics that are exported in the same form as they were imported.

^bMay not add due to rounding.

^cLess than \$50 000.

^PPreliminary data.

Source: Statistics Canada.

Forest Industries — Corporate Profits, Taxes, and Capital Expenditures

Corporate Profits (after tax) — Quarterly Rates — Seasonally Adjusted (net income for period)

		\$ 000 000				
		First	Second	Third	Fourth	Annual
Wood industries						
	1986	82	116	95	123	416
	1987	173	136	-160	178	327
	1988	167	138	128	101	534
	1989	101	92	136	81	410
Paper and allied industries and forestry						
	1986	213	367	252	427	1 259
	1987	510	573	708	900	2 691
	1988	688	872	719	646	2 925
	1989	621	604	500	371	2 096

Corporate Taxation		\$ 000 000					
		1986			1987		
		Fed- eral	Provin- cial	Total	Fed- eral	Provin- cial	Total
Forestry		17	11	28	22	14	36
Wood industries		72	48	120	127	80	207
Paper and allied industries		136	123	259	254	190	444
Total		225	182	407	402	284	686

Capital Expenditures		\$ 000 000		
		Construction	Machinery and Equipment	Total
1989 — Preliminary				
Forestry		123	150	273
Wood industries		235	569	804
Paper and allied industries		640	4 494	5 134
Total		998	5 213	6 211
1990 — Intentions				
Forestry		153	170	323
Wood industries		109	625	734
Paper and allied industries		574	4 041	4 615
Total		836	4 836	5 672

Source: Statistics Canada.

World Forestry Data

	Forest Areas ^a	Closed Forest	Growing Stock
	'000 000 ha		'000 000 m ³
North America	751.4	459.3	39 700
Canada	453.3 ^b	264.1	19 600
United States	298.1	195.2	20 100
Central America	72.6	72.2	5 500
Mexico	47.8	47.8	600
South America	915.0	667.0	91 500
Africa	743.7	235.9	25 000
Europe	158.9	137.0	12 000
USSR	928.6	791.6	85 900
Asia	468.2	361.8	38 000
Oceania	298.9	223.4	6 000
World	4 337.4	2 948.3	303 600

^aIncludes closed forest and other wooded land.

^bCanada's Forest Inventory 1986. Forestry Canada.

Sources: Forest resources 1980, Food and Agriculture Organization of the United Nations 1985. Cibula, E.J. Trends in timber supply and trade, Information Review, 1980, Department of the Environment, London.

Roundwood Production ————— Average 1984-88

	Industrial	Fuelwood
	'000 000 m ³	
North America	555	124
Canada	167	7
United States	388	117
Central America	12	46
Mexico	7	14
South America	93	221
Africa	54	408
Europe	295	57
USSR	294	86
Asia	256	756
Oceania	29	8
World	1 588	1 706

Source: FAO Yearbook of Forest Statistics, 1988.

Cette publication est aussi disponible en français sous le titre
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Primary Forest Production

Product	1986		Average 1982-86	
	'000 m ³	%	'000 m ³	%
Logs and bolts ^a				
Softwoods	119 743	67.6	107 696	67.5
Hardwoods	5 641	3.2	4 727	3.0
Pulpwood				
Softwoods	38 139	21.5	34 769	21.8
Hardwoods	4 516	2.5	4 127	2.6
Fuelwood ^b				
Softwoods	1 757	1.0	1 726	1.1
Hardwoods	5 077	2.9	4 675	2.9
Other roundwood products	2 224	1.3	1 718	1.1
Total primary products	177 097	100.0	159 438	100.0

Province and Territory	1986		Average 1982-86	
	'000 m ³	%	'000 m ³	%
Newfoundland	2 408	1.3	2 523	1.6
Prince Edward Island	476	0.3	375	0.2
Nova Scotia	3 859	2.2	3 496	2.2
New Brunswick	8 720	4.9	7 751	4.9
Quebec	38 127	21.5	35 094	22.0
Ontario	30 186	17.0	26 011	16.3
Manitoba	1 703	1.0	1 627	1.0
Saskatchewan	3 529	2.0	2 882	1.8
Alberta	10 387	5.9	8 176	5.1
British Columbia				
Coast	26 561	15.0	25 938	16.3
Interior	50 942	28.8	45 382	28.5
Yukon and Northwest Territories	199	0.1	183	0.1
Total	177 097	100.0	159 438	100.0

Area harvested

1986	1987	1988
'000 ha		
1 019	1 013	1 022

^aIncludes logs for pulping.

^bIncludes wood for charcoal.

Source: Statistics Canada.

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